🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-159615-1

Client Project/Site: Ford LTP - Off-Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 11/22/2021 3:30:30 PM

Michael DelMonico, Project Manager I (330)497-9396 Michael.DelMonico@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



www.eurofinsus.com/Env

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	1
Method Summary	5
	6
Detection Summary	7
Client Sample Results 8	8
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17

Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEO	Tovisity Equivalent Quatient (Diavin)	

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 240-159615-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-159615-1

Comments

No additional comments.

Receipt

The samples were received on 11/9/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.7° C and 3.8° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-159615-1	TRIP BLANK_56	Water	11/05/21 00:00	11/09/21 10:00
240-159615-2	MW-144S_110521	Water	11/05/21 10:05	11/09/21 10:00

Eurofins TestAmerica, Canton

Detection Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_56

No Detections.

Client Sample ID: MW-144S_110521

No Detections.

Job ID: 240-159615-1

Lab Sample ID: 240-159615-1 4 5 6 7 8 Lab Sample ID: 240-159615-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_56 Date Collected: 11/05/21 00:00 Date Received: 11/09/21 10:00

Job ID: 240-159615-1

Lab Sample ID: 240-159615-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 14:54	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 14:54	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 14:54	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 14:54	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 14:54	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 14:54	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					11/16/21 14:54	1	
4-Bromofluorobenzene (Surr)	90		56-136					11/16/21 14:54	1	
Toluene-d8 (Surr)	98		78-122					11/16/21 14:54	1	
Dibromofluoromethane (Surr)	109		73-120					11/16/21 14:54	1	

Eurofins TestAmerica, Canton

Client Sample ID: MW-144S_110521 Date Collected: 11/05/21 10:05 Date Received: 11/09/21 10:00

Lab Sample ID: 240-159615-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/21 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83	·	66 - 120			-		11/13/21 02:02	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 18:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 18:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 18:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62-137			-		11/16/21 18:26	1
4-Bromofluorobenzene (Surr)	89		56-136					11/16/21 18:26	1
Toluene-d8 (Surr)	96		78-122					11/16/21 18:26	1
Dibromofluoromethane (Surr)	114		73-120					11/16/21 18:26	1

Surrogate Summary

Method: 8260B - Volatile Organic Compounds (GC/MS) Matrix: Water

latrix: Water	_	· ·				Prep Type: Total/NA
			Pe	ercent Surro	ogate Recovery (Ac	ceptance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-159615-1	TRIP BLANK_56	99	90	98	109	
240-159615-2	MW-144S_110521	102	89	96	114	
240-159636-F-2 MS	Matrix Spike	93	93	102	105	
240-159636-G-2 MSD	Matrix Spike Duplicate	93	94	103	105	
LCS 240-513208/5	Lab Control Sample	86	91	100	101	
MB 240-513208/8	Method Blank	91	87	98	108	
Surrogate Legend						
DCA = 1,2-Dichloroeth	nane-d4 (Surr)					
BFB = 4-Bromofluorob	enzene (Surr)					
TOL = Toluene-d8 (Su	rr)					
DBFM = Dibromofluor	omethane (Surr)					
Aethod: 8260B S	IM - Volatile Organic	Compoun	ds (GC/	MS)		
Aatrix: Water				·····,		Prep Type: Total/NA
-			D.		anata Rosavany (As	

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		13
Lab Sample ID	Client Sample ID	(66-120)		
240-159543-G-3 MS	Matrix Spike	85		
240-159543-O-3 MSD	Matrix Spike Duplicate	83		
240-159615-2	MW-144S_110521	83		
LCS 240-512758/4	Lab Control Sample	83		
MB 240-512758/5	Method Blank	84		
Surrogate Legend				

DCA = 1,2-Dichloroethane-d4 (Surr)

Job ID: 240-159615-1

Prep Type: Total/NA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-513208/8 Matrix: Water

Analysis Batch: 513208

ME	MB						
Analyte Resul	Qualifier	RL	MDL (Unit D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene1.0	U	1.0	0.49 i	ug/L		11/16/21 14:06	1
cis-1,2-Dichloroethene 1.0	U	1.0	0.46 i	ug/L		11/16/21 14:06	1
Tetrachloroethene 1.0	U	1.0	0.44 u	ug/L		11/16/21 14:06	1
trans-1,2-Dichloroethene 1.0	U	1.0	0.51 u	ug/L		11/16/21 14:06	1
Trichloroethene 1.0	U	1.0	0.44 ı	ug/L		11/16/21 14:06	1
Vinyl chloride 1.0	U	1.0	0.45 u	ug/L		11/16/21 14:06	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		11/16/21 14:06	1
4-Bromofluorobenzene (Surr)	87		56 - 136		11/16/21 14:06	1
Toluene-d8 (Surr)	98		78 - 122		11/16/21 14:06	1
Dibromofluoromethane (Surr)	108		73-120		11/16/21 14:06	1

Lab Sample ID: LCS 240-513208/5 Matrix: Water Analysis Batch: 513208

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	28.3		ug/L		113	63 - 134	
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	77 - 123	
Tetrachloroethene	25.0	29.3		ug/L		117	76 - 123	
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	75 - 124	
Trichloroethene	25.0	27.4		ug/L		110	70 - 122	
Vinyl chloride	25.0	24.0		ug/L		96	60 - 144	
1								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 1 36
Toluene-d8 (Surr)	100		78-122
Dibromofluoromethane (Surr)	101		73-120

Lab Sample ID: 240-159636-F-2 MS Matrix: Water Analysis Batch: 513208

Analysis Datch. 919200	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	25.8		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	24.8		ug/L		99	66 - 128	
Tetrachloroethene	1.0	U	25.0	28.9		ug/L		116	62-131	
trans-1,2-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	56 - 136	
Trichloroethene	1.0	U	25.0	25.4		ug/L		101	61 - 124	
Vinyl chloride	1.0	U	25.0	22.2		ug/L		89	43 - 157	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

Page 11 of 19

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62-137
4-Bromofluorobenzene (Surr)	93		56_136
Toluene-d8 (Surr)	102		78 - 122

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Matrix Spike Prep Type: Total/NA

Eurofins TestAmerica, Canton

Client Sample ID: Method Blank 5

10

QC Sample Results

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-159636-F-2 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 513208 MS MS Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 105 73-120 Lab Sample ID: 240-159636-G-2 MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Water Prep Type: Total/NA Analysis Batch: 513208 Sample Sample Spike MSD MSD %Rec. RPD **Result Qualifier** RPD **Result Qualifier** Added D %Rec Limits Limit Analyte Unit 1.0 U 1,1-Dichloroethene 25.0 25.9 ug/L 104 56 - 135 0 26 ug/L cis-1.2-Dichloroethene 1.0 U 25.0 25.0 100 66-128 1 14 Tetrachloroethene 1.0 U 25.0 29.5 ug/L 118 62-131 2 20 trans-1.2-Dichloroethene 1.0 U 25.0 25.1 ug/L 100 56 - 136 1 15 Trichloroethene 1.0 U 25.0 25.3 ug/L 101 61-124 0 15 Vinyl chloride 1.0 U 25.0 22.3 ug/L 89 43-157 24 1 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 93 62-137 4-Bromofluorobenzene (Surr) 94 56 - 136 103 Toluene-d8 (Surr) 78-122 Dibromofluoromethane (Surr) 105 73-120 Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-512758/5 **Client Sample ID: Method Blank** Matrix: Water **Prep Type: Total/NA** Analysis Batch: 512758 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 1.4-Dioxane 2.0 U 2.0 0.86 ug/L 11/12/21 16:51 1 MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 66 - 120 84 11/12/21 16:51 **Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 240-512758/4 Matrix: Water Prep Type: Total/NA Analysis Batch: 512758 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 9.63 ug/L 96 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 83 Lab Sample ID: 240-159543-G-3 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 512758 Sample Sample Spike MS MS %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.0 UF1 10.0 100 9.98 ug/L 51-153

Eurofins TestAmerica, Canton

10

Job ID: 240-159615-1

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	85		66 - 120									5
Lab Sample ID: 240-1595 Matrix: Water Analysis Batch: 512758	43-O-3 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty			6
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,4-Dioxane	2.0	U F1	10.0	9.71		ug/L		97	51 - 153	3	16	8
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									9
1,2-Dichloroethane-d4 (Surr)	83		66 - 120									_
												10

QC Association Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site

GC/MS VOA

Analysis Batch: 512758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159615-2	MW-144S_110521	Total/NA	Water	8260B SIM	
MB 240-512758/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-512758/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159543-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159543-O-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159615-1	TRIP BLANK_56	Total/NA	Water	8260B	
240-159615-2	MW-144S_110521	Total/NA	Water	8260B	
MB 240-513208/8	Method Blank	Total/NA	Water	8260B	
LCS 240-513208/5	Lab Control Sample	Total/NA	Water	8260B	
240-159636-F-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-159636-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Eurofins TestAmerica, Canton

Job ID: 240-159615-1

Matrix: Water

Lab Sample ID: 240-159615-1

Client Sample ID: TRIP BLANK_56 Date Collected: 11/05/21 00:00 Date Received: 11/09/21 10:00

Duen Trune	Batch	Batch Mathad	Dum	Dilution	Batch	Prepared	A a l	1 - 6	
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	513208	11/16/21 14:54	SAM	TAL CAN	
Client Sam	ple ID: MW	-144S 110521					Lab Sa	mple ID:	240-159615-2
Date Collecte	d: 11/05/21 1	0:05							Matrix: Water
Date Collecte Date Receive									Matrix: Water
				Dilution	Batch	Prepared			Matrix: Water
	d: 11/09/21 1	0:00	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab	Matrix: Wate
Date Receive	d: 11/09/21 1 Batch	0:00 Batch	Run			•	Analyst SAM	Lab TAL CAN	Matrix: Water

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-159615-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
lorida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
llinois	NELAP	200004	07-31-22
owa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
(entucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
<i>l</i> innesota	NELAP	OH00048	12-31-21
/linnesota (Petrofund)	State	3506	08-01-23
lew Jersey	NELAP	OH001	06-30-22
lew York	NELAP	10975	03-31-22
Dhio VAP	State	CL0024	12-21-23
Dregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
exas	NELAP	T104704517-18-10	08-31-22
/irginia	NELAP	11570	09-14-22
Vashington	State	C971	01-12-22
Vest Virginia DEP	State	210	12-31-21

		TestAmerica Laboratories, Inc.	COC No:	4 of 4 CVV's	For lab use only	Walk-in client	ah seesan jinas	Sunding State	Job/SDG No:		Sample Specific Notes / Special Instructions:	1 Trip Blank	3 VOAs for 8260B	3 VOAs for 8260B SIM										Date/Finas	11521215	Date/Time: 1 /0 / 2) / 100	1-1-0		
Chain of Custody Record TestAmerica Lahoratory location: Brighton — 1048 Citation Drive. Suite 200/ Brighton, MI 48116 / 810-229-2763	Regulatory program: DW NPDES RCRA Cother		Site Contact: Julia McClafferty	Telephone: 248-994-2240 Telephone: 734-644-5131 Telephone: 330-497-9396	Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses		THINGON THONTE 30 day = 3 weeks	I week Z) I C	85608 85608 55608 8 8 8 8 8	B B DCE E 83 5001	الالجار الحالي المجار الحالي المحالي المجار الحالي المحالي المحالي		11/5/21 1006 X & X X X X X X X							240-159615 Chain of Custody	Nample Disposal (A fee may be assessed if samples are retained longer than 1 month) 11 Poison B Unknown Return to Client Disnosal B Archive For Month		o.com. Cadena #E203631	Date Time. 1 Received by:	YCad 15 1115/21 1215 NOVI CCID 570008	RCHORS 11/18/21 / 1200	Company! The Date Trips. (Company: LTA		
Test	Client Contact	Company Name: Arcadis	Address: 28550 Cabot Drive, Suite 500	City/State/Zip: Novi, MI, 48377		Phone: 248-994-2240	Project Name: Ford LTP Off-Site	Project Number: 30080642.402.04	PC) # 30080642.402.04		Sample Identification	U TRIP BLANK 50	WW-1945 110521	4305-10	Pi	age	17 0	 9			 Possible Hazard Identification Von-Hazard	s/QC Requirements & Comments:	Submit all results through Cadena at }tomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	Relinquished by: MAN	Patroniched her (1)	reinquisired by: 1 Hold + HUL	Relinquished by:	11 (SAMATATAA DATAA LAATAA AAAAAAAAAAAAAAAAAAAA	

.

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : [59615
Client ARCADIS Site Name	Cooler unpacked by:
Cooler Received on 1-9-21 Opened on 1-9-21	Vary Var
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
Receipt After hours. Drop-off Date/Time Storage Location	
TestAmerica Cooler #	Temp °C Temp °C No No No No No No No No No No
Contacted PM Date by via Verbal V	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page The TB is not logged for SIM due to The per corrected COC. mg 11/11/21	Samples processed by: Sufficient volume, July 11/9/21
19. SAMPLE CONDITION Sample(s)	in a broken container.
20. SAMPLE PRESERVATION	
Sample(s)	ther preserved in the laboratory.
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 159615

Cooler Description	IR Gun #	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
A Client Box Other	H-14 H-15	36	3-7_	Water None
TA Client Box Other	df-14 R-15	3-7	3-8	Wet Ice Blue Ice Dry Is Water None
TA Client Box Other	IR-14 IR-15			Wellice Bluelice Dryle Water None
TA Client Box Other	1R-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Weltce Bluetce Dryk Water None
TA Client Box Other	R-14 R-15			Wellice Bluelice Dry k Water None
TA Client Box Other	18-14 IB-15			Wellice Bluelice Drylic Water None
TA Client Box Other	IR-14 IR-15		· · · · · · · · · · · · · · · · · · ·	Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	11-14 H-15		*	Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Sox Other	IR-14 IR-15			Wellice Bluelice Drylc Water None
TA Client Box Other	IR-14 IR-15			Wellice Bluelice Drylic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	iR-14 iR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15		<u></u>	Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wellice Bluelice Drylc Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wat Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wellice Blue lice Dry lo Water None
TA Client Box Other	IR-14 IR-15			Wellice Bluelice Drylic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15		1977 - 1977 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 -	Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wellce Bluelce Dry Ic Water None
TA Client Box Other	(R-14 IR-15			Wetice Blue ice Dry ice Water None
TA Client Box Other	JR-14 JR-15			Wellice Blue Ico Dry Ico Water None
TA Client Box Other	IR-14 IR-15			Wellice Sive Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wellice Bluelice Dry Ici Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None

.

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



November 22, 2021

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30080642.402.04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: TestAmerica - North Canton Laboratory submittal: 159615-1 Sample date: 2021-11-05 Report received by CADENA: 2021-11-22 Initial Data Verification completed by CADENA: 2021-11-22 Number of Samples:2 Sample Matrices: Water Test Categories: GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than $10x$ the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

Laboratory: TestAmerica - North Canton Laboratory Submittal: 159615-1 CADENA Project ID: E203631

Sample Name: TRIP BLANK_56 MW-144S_110521 Lab Sample ID: 2401596151 2401596152 Lab Sample ID: 2401596151 2401596152 Sample Date: 11/5/2021 11/5/2021 Analyte Cas No. Report Report Analyte Cas No. Result Limit Units Cas No. Result Limit Units Report Analyte Cas No. Result Limit Units Construction 75-35-4 ND 1.0 ug/l Report Concethene 75-35-4 ND 1.0 ug/l ND 1.0 Concethene 127-18-4 ND 1.0 ug/l ND 1.0 ug/l Concethene 127-18-4 ND 1.0 ug/l ND 1.0 ug/l Concethene 75-01-4 ND 1.0 ug/l ND 1.0 ug/l Constructione 75-01-4 ND 1.0 ug/l ND 1.0 ug/l		Valid	Qualifier			1	1	1	1	1	1		1
Sample Name: TRIP BLANK_56 MW-144S_11052 Lab Sample ID: 2401596151 2401596152 Sample Date: 11/5/2021 11/5/2021 Sample Date: 11/5/2021 11/5/2021 Analyte Cas No. Resort Valid Report Valid Report Cas No. Result Limit Units Cas No. Result Limit Units 2401596152 Cas No. Result Limit Units 24015017 Concethene 75-35-4 ND 1.0 ug/l 1.0 Chloroethene 156-59-2 ND 1.0 ug/l 1.0 1.0 Chloroethene 127-18-4 ND 1.0 ug/l 1.0 1.0 1,2-Dichloroethene 156-60-5 ND 1.0 ug/l 1.0 1.0 Chloroethene 75-01-4 ND 1.0 ug/l 1.0 1.0 Condition 75-01-4 ND 1.0 ug/l 1.0 1.0 Chloroethene 75-01-4 ND 1.0		-				l/br	l/br	l/br	l/br	l/br	l/br		l/gu
Sample Name:TRIP BLANK_56Lab Sample ID:2401596151Lab Sample ID:2401596151Sample Date:11/5/2021Sample Date:11/5/2021AnalyteCas No.ReportReportAnalyteCas No.ReportNDPlichloroethene75-35-4ND1.0Ug/lJ.2-Dichloroethene156-59-2ND1.0Ug/lJ.2-Dichloroethene75-31-4ND1.0Ug/lConcethene75-01-4ND1.0Ug/lChoride75-01-4ND1.0Ug/lChoride75-01-4ND1.0Ug/lConcethene75-01-4Concethene75-01	_110521 52 	eport											2.0 1
Sample Name:TRIP BLANK_56Lab Sample ID:2401596151Lab Sample ID:2401596151Sample Date:11/5/2021Sample Date:11/5/2021AnalyteCas No.ReportReportAnalyteCas No.ReportNDPlichloroethene75-35-4ND1.0Ug/lJ.2-Dichloroethene156-59-2ND1.0Ug/lJ.2-Dichloroethene75-31-4ND1.0Ug/lConcethene75-01-4ND1.0Ug/lChoride75-01-4ND1.0Ug/lChoride75-01-4ND1.0Ug/lConcethene75-01-4Concethene75-01	1W-144S 4015961 1/5/2021	R	tesult l			ND	ND	ND	ND	ND	ND		ND
Sample Name:TRIP BLANK_56Lab Sample ID:2401596151Sample Date:11/5/2021ReportReportAnalyteCas No.ResultCas No.ResultLimitPlothoroethene75-35-4NDPlothoroethene127-18-4ND1,2-Dichloroethene127-18-4ND1,2-Dichloroethene75-01-6ND1,2-Dichloroethene75-01-6ND1,2-Dichloroethene75-01-6ND1,2-Dichloroethene75-01-61,2-Dichloroethene75-01-61,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene127-18-41,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-Dichloroethene1001,2-	2 0 7	Valid				1	1	1	1	1	1		
Sample Name: TRIP BLA Lab Sample ID: 2401596 Sample Date: 11/5/20 Sample Date: 11/5/20 Cas No. Result 75-35-4 ND chloroethene 156-59-2 ND chloroethene 127-18-4 ND chloroethene 156-60-5 ND oroethene 75-01-6 ND chloride 75-01-4 ND chloride 75-01-4 ND						l/bn	l/gu	l/gu	l/bn	l/gu	l/gu		
Sample Name: TRIP BLA Lab Sample ID: 2401596 Sample Date: 11/5/20 Sample Date: 11/5/20 Cas No. Result 75-35-4 ND chloroethene 156-59-2 ND chloroethene 127-18-4 ND chloroethene 156-60-5 ND oroethene 75-01-6 ND chloride 75-01-4 ND chloride 75-01-4 ND	NK_56 151 21	Report	Limit			1.0	1.0	1.0	1.0	1.0	1.0		
Analyte chloroethene chloroethene chloroethene 1,2-Dichloroethene oroethene chloride	TRIP BLAI 2401596 11/5/202		Result			ND	ND	ND	ND	ND	ND		
Analyte ,1-Dichloroethene is-1,2-Dichloroethene etrachloroethene rans-1,2-Dichloroethene richloroethene inyl chloride <u>SSim</u>	Sample Name: Lab Sample ID: Sample Date:		Cas No.			75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4		123-91-1
GC/MS VOC 05W-8260B 1 1 1 1 1 1 1			Analyte	SC/MS VOC	<u>OSW-8260B</u>	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride	OSW-8260BBSim	1,4-Dioxane



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-159615-1 CADENA Verification Report: 2021-11-22

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 43584R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-159615-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

				Sample Collection		Ana	ysis	
	Sample ID	Lab ID	Matrix	Date	Parent Sample	VOC	VOC SIM	
	TRIP BLANK_56	240-159615-1	Water	11/05/21		х		
-	MW-144S_110521	240-159615-2	Water	11/05/21		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Repo No	orted		mance ptable	Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
3. Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
11. Narrative summary of Quality Assurance or sample problems provided		х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/8260B-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Rep	oorted		mance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation		1			
System performance and column resolution		Х		Х	
Initial calibration %RSDs		х		Х	
Continuing calibration RRFs		х		Х	
Continuing calibration %Ds		х		Х	
Instrument tune and performance check		х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	
Notes:					

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY:	Bhagyashree Fulzele
--------------------------	---------------------

SIGNATURE:	Brutxele

DATE: December 14, 2021

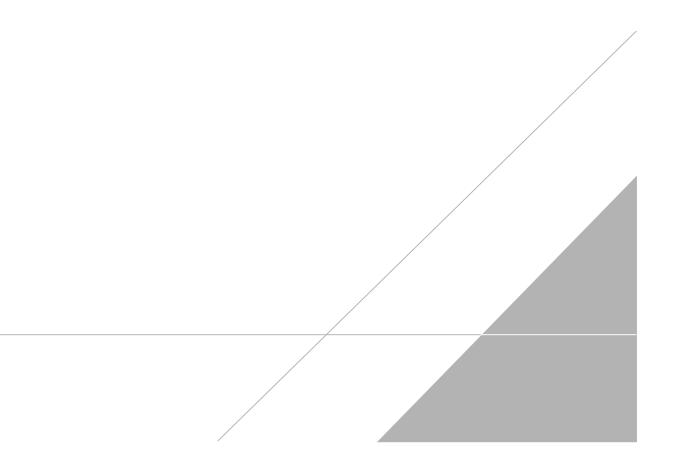
PEER REVIEW: Andrew Korycinski

DATE: December 14, 2021

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



		TestAmerica Laboratories, Inc.	COC No:	4 of 4 CVV's	For lab use only	Walk-in client	ah seasan jinas	Sunding State	Job/SDG No:		Sample Specific Notes / Special Instructions:	1 Trip Blank	3 VOAs for 8260B	3 VOAs for 8260B SIM										Date/Finas	11521215	Date/Time: 1 /0 / 2) / 100	1-1-0		
Chain of Custody Record TestAmerica Lahoratory location: Brighton — 1048 Citation Drive. Suite 200/ Brighton, MI 48116 / 810-229-2763	Regulatory program: DW NPDES RCRA Cother		Site Contact: Julia McClafferty	Telephone: 248-994-2240 Telephone: 734-644-5131 Telephone: 330-497-9396	Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses		THINGON THONTE 30 day = 3 weeks	I week Z) I C	85608 85608 55608 8 8 8 8 8	B B DCE E 83 5001	الالجار الحالي المجار الحالي المحالي المجار الحالي المحالي المحالي		11/5/21 1006 X & X X X X X X X							240-159615 Chain of Custody	Nample Disposal (A fee may be assessed if samples are retained longer than 1 month) 11 Poison B Unknown Return to Client Disnosal B Archive For Month		o.com. Cadena #E203631	Date Time 1 Received by:	YCad 15 1115/21 1215 NOVI CCID 570008	RCHORS 11/18/21 / 1200	Company! The Date Trips. (Company: LTA		
Test	Client Contact	Company Name: Arcadis	Address: 28550 Cabot Drive, Suite 500	City/State/Zip: Novi, MI, 48377		Phone: 248-994-2240	Project Name: Ford LTP Off-Site	Project Number: 30080642.402.04	PC) # 30080642.402.04		Sample Identification	U TRIP BLANK 50	WW-1945 110521	4305-10	Pi	age	17 0	 9			 Possible Hazard Identification Von-Hazard	s/QC Requirements & Comments:	Submit all results through Cadena at }tomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	Relinquished by: MAN	Patroniched her (1)	reinquisired by: 1 Hold + HUL	Relinquished by:	11 (SAMATATAA DATAA LAATAA AAAAAAAAAAAAAAAAAAAA	

.

Client Sample ID: TRIP BLANK_56 Date Collected: 11/05/21 00:00 Date Received: 11/09/21 10:00

Job ID: 240-159615-1

Lab Sample ID: 240-159615-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 14:54	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 14:54	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 14:54	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 14:54	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 14:54	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 14:54	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	99		62-137					11/16/21 14:54	1	
4-Bromofluorobenzene (Surr)	90		56-136					11/16/21 14:54	1	
Toluene-d8 (Surr)	98		78-122					11/16/21 14:54	1	
Dibromofluoromethane (Surr)	109		73-120					11/16/21 14:54	1	

Eurofins TestAmerica, Canton

Client Sample ID: MW-144S_110521 Date Collected: 11/05/21 10:05 Date Received: 11/09/21 10:00

Lab Sample ID: 240-159615-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/21 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83	·	66 - 120			-		11/13/21 02:02	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 18:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 18:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 18:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 18:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62-137			-		11/16/21 18:26	1
4-Bromofluorobenzene (Surr)	89		56-136					11/16/21 18:26	1
Toluene-d8 (Surr)	96		78-122					11/16/21 18:26	1
Dibromofluoromethane (Surr)	114		73-120					11/16/21 18:26	1